

Part no.

## Catalog No.

LS-S02

Delivery programme

## Basic function

Part group reference
Product range
Protection type
Features
Ambient temperature
Contacts
N/C = Normally closed

Notes

Contact sequence

Housing
Connection type

## Position switches

Safety position switches
LS(M)-..
Rounded plunger
P66, IP67
Basic device, expandable
$-25-+70$
$2 N C-$
= safety function, by positive opening to IEC/EN 60947-5-1

yes

Yellow


Insulated material
Screw terminal

## Approvals

Product Standards
UL File No.
UL Category Control No
CSA File No.
CSA Class No.
North America Certification
Degree of Protection

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking
E29184
NKCR
12528
3211-03
UL listed, CSA certified
IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

## General

Standards
Climatic proofing

Ambient temperature
Mounting position
Protection type
Terminal capacities

## IEC/EN 60947

Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
$-25-+70$
As required
IP66, IP67

| Solid |  | $\mathrm{mm}^{2}$ | $1 \times(0.5-2.5)$ |
| :---: | :---: | :---: | :---: |
| Flexible with ferrule |  | $\mathrm{mm}^{2}$ | $1 \times(0.5-1.5)$ |
| Contacts/switching capacity |  |  |  |
| Rated impulse withstand voltage | $\mathrm{U}_{\text {imp }}$ | $\begin{aligned} & \text { V } \\ & \text { AC } \end{aligned}$ | 4000 |
| Rated insulation voltage | $U_{i}$ | V | 400 |
| Overvoltage category/pollution degree |  |  | III/3 |
| Rated operational current | $I_{\text {e }}$ | A |  |
| AC-15 |  |  |  |
| 24 V | $\mathrm{I}_{\mathrm{e}}$ | A | 6 |
| 220 V 230 V 240 V | $\mathrm{I}_{\mathrm{e}}$ | A | 6 |
| 380 V 400 V 415 V | $\mathrm{I}_{\mathrm{e}}$ | A | 4 |
| DC-13 |  |  |  |
| 24 V | $I_{\text {e }}$ | A | 3 |
| 110 V | $\mathrm{I}_{\mathrm{e}}$ | A | 0.6 |
| 220 V | $\mathrm{I}_{\mathrm{e}}$ | A | 0.3 |
| Control circuit reliability |  |  |  |
| at $24 \mathrm{VDC} / 5 \mathrm{~mA}$ | $\mathrm{HF}_{\text {F }}$ |  | $<10^{-7},<1$ fault in 107 operations |
| at $5 \mathrm{VDC} / 1 \mathrm{~mA}$ | $\mathrm{HF}_{\text {F }}$ |  | $<10^{-6},<1$ failure at $5 \times 10^{6}$ operations |
| Supply frequency |  | Hz | max. 400 |
| Short-circuit rating to IEC/EN 60947-5-1 |  |  |  |
| max. fuse |  | A gG/ gL | 6 |
| Repetition accuracy |  | mm | 0.15 |
| Rated conditional short-circuit current |  | kA | 1 |
| Mechanical variables |  |  |  |
| Lifespan, mechanical | Operations | $\begin{aligned} & \mathrm{x} \\ & 10^{6} \end{aligned}$ | 8 |
| Contact temperature of roller head |  | ${ }^{\circ} \mathrm{C}$ | $\leftrightarrows_{100}$ |
| Mechanical shock resistance (half-sinusoidal shock, 20 ms ) |  |  |  |
| Standard-action contact |  | g | 25 |
| Operating frequency | Operations/ h |  | $\check{5}_{6000}$ |
| Actuation |  |  |  |
| Mechanical |  |  |  |
| Actuating force at beginning/end of stroke |  | $N$ | 1.0/8.0 |
| Actuating torque of rotary drives |  | Nm | 0.2 |
| Max. operating speed with DIN cam |  | $\mathrm{m} / \mathrm{s}$ | 1/0.5 |
| Notes |  |  | for angle of actuation $\mathrm{a}=0^{\circ} / 30^{\circ}$ |

## Technical data ETIM 5.0

Sensors (EG000026) / End switch (ECOOOO30)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8-27-27-06-01 [AGZ382011])

| Width sensor | mm | 31 |
| :--- | :--- | :--- |
| Diameter sensor | mm | 0 |
| Height of sensor | mm | 61 |
| Length of sensor | mm | 33.5 |
| Rated operation current le at AC-15, 24 V | A | 6 |
| Rated operation current le at AC-15, 125 V | A | 6 |
| Rated operation current le at AC-15, 230 V | A | 6 |
| Rated operation current le at DC-13, 24 V | A | 3 |
| Rated operation current le at DC-13, 125 V | A | 0.8 |
| Rated operation current le at DC-13, 230 V | A | 0.3 |

Switching function
Output electronic
Forced opening
Number of safety auxiliary contacts
Number of contacts as normally closed contact
Number of contacts as normally open contact
Number of contacts as change-over contact
Type of interface
Type of interface for safety communication
Housing according to norm
Construction type housing
Material housing
Coating housing
Type of control element
Alignment of the control element
Type of electric connection
With status indication
Suited for safety functions
Explosion safety category for gas
Explosion safety category for dust
Ambient temperature during operating
Degree of protection (IP)

Slow-action switch
No Yes

2


0

None

None

Cuboid
Plastic

Plunger

No
Yes
None
None
${ }^{\circ} \mathrm{C}$
$-25-70$
IP67

## Dimensions


(1)

Tightening torque of cover screws: $0.8 \mathrm{Nm} \pm 0.2 \mathrm{Nm}$
(2) only with LS (insulated version)
(3) Fixing screws $2 \times \mathrm{M} 4 \geq 30$
$\mathrm{M}_{\mathrm{A}}=1.5 \mathrm{Nm}$


